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### Method and apparatus for **static single assignment** form **dead code ...**

A method for **static single assignment** form **dead code elimination**, the method
comprising: examining a first instruction off of a **worklist**, wherein the first ...
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Partial **Dead Code Elimination** using Extended Value Graph. ...... Quantitative Metrics for
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2) Handling **multibit** buses, registers and constants as **single**. values. ...... during this initial
phase as well, such as **dead-code elimination** ...
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source **code** for a **work** means the preferred form of the **work** for making ...
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A one-to-one **assignment** means that a **single** application **component** has been mapped
to ...... The result of **dead code elimination** is an optimized schedule of ...
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This section demonstrates how to compile and **link** a **single** file. .... A section is a locatable
**block** of **code** or data that will occupy contiguous locations ...
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Using the simple telco wiring colour **code**, a **single** pair can easily be ...... I **live** in the
Seattle, Washington area and I understand all of the **work** ...
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In an `insn' during **dead-code elimination**, 1 means that the insn is **dead code**. ...... On
some machines, there is a **single** instruction that does all the **work** ...
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### Method and apparatus for static single assignment form dead code ...

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PHI. nodes within the **single static assignment form** so as to
create code .... constant propagation, global value numbering and
**dead** code **elimination**. ...
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### Efficiently computing static single assignment form and the ...

Rebecca Hasti , Susan Horwitz, Using **static single assignment form** to improve ...
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Carl McConnell , Ralph E. Johnson, Using **static single assignment form** in a ... An
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to/from. **static single assignment**. **form**, Horizontal. arrows represent ...... **Dead** Code
**Elimination**. The original. source program. may have. **dead** ...
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means for accessing a **static single assignment** (SSA) representation of a ... a **single**
**static form** partial redundancy **elimination** (SSAPRE) optimization, ...
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Figure 1 illustrates the role of **static single assignment form** in a compiler. ...... of
dependence analysis to optimizations (like **dead** code **elimination**) ...
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[PDF] Shimple: An Investigation of **Static Single Assignment Form**
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the idea behind **Static Single Assignment form**, it will be instructive to take ...... ure 2.18,
applying **dead** code **elimination** would have simply removed the ...
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## Tree-SSA passes - GNU Compiler Collection (GCC) Internals
Enter **static single assignment form**. This pass rewrites the function such that .... This
pass is a stronger **form** of **dead** code **elimination** that can eliminate ...
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## SAS99: Accepted Papers
Programs represented in **Static Single Assignment** (SSA) **form** contain phi instructions
(or ... Partial **Dead** Code **Elimination** using Extended Value Graph ...
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optimizing ... Among these optimizations are **dead** store **elimination**, ...
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## [PS] Construction of Thinned Gated **Single-Assignment Form**
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subscripts; and **dead** code **elimination**, when we try to evaluate comparisons for .....
introduced the rst gated version of **static single-assignment form** ...
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**component** of partial redundancy **elimination**. We will then describe in de- ...
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### [PS] **Static Single** Information **Form**
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**Static Single Assignment** (SSA) **form** transforms the pro- ..... Both are often called \**dead**
code **elimination**" in the literature. ...
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## The LLVM Lexicon
DSA: Data Structure Analysis; DSE: **Dead** Store **Elimination** ... LCSSA: Loop-Closed
**Static Single Assignment Form**; LICM: Loop Invariant Code Motion ...
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**Dead** code **elimination** is an optimization which removes all operations whose ......
computing **static single assignment form** and the control dependence graph. ...
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Figure 5: **Static Single Assignment form** for the program in Figure 3(b). .... sion
**elimination** and loop invariant. code motion. 3. **Dead** Code **Elimination** ...
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## [PDF] Partial redundancy **elimination** for access path expressions
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allocation, basic block merging, tail recursion **elimination**, **dead** code **elimination**, .....
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[PDF] <u>The **Static Single** Information **Form**</u>
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**Static Single-Assignment form** is a sparse program representation in which ...... Both are
often called \**dead** code **elimination**" in the. literature. ...
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[PS] <u>JaMake: A Java Compiler Environment</u>
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performs numerous classical optimizations (**dead** code **elimination**, value num- ....
construction and destruction of **static single assignment form**, ...
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Optimization algorithms using SSA: **dead**-code. **elimination**, conditional constant
propagation; ... **static single assignment form** and the control dependence ...
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computing **static single. assignment form** and the control ...
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subexpression **elimination** and loop in-. variant code motion. 3. **Dead** Code ...
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translating Fortran to **single assignment form** in an ef- ..... loop 5, tri-diagonal **elimination**,
below diagonal; and. loop 12, first difference [5]. ...
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on this **form**, including **dead** store **elimination** [Cytron ...... destruction of **static single
assignment form**. Software:. Practice and Experience 28, 8 (July), ...
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<u>A shader compiler for VirtualDub - virtualdub.org</u>
The **dead** store **elimination** (a **form** of **dead** code **elimination**) pass then detects .....
**Single**-Pass Generation of **Static Single Assignment Form** for Structured ...
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**component** contains a type guard. This type guard is an assertion that the. dynamic type of
the object will ..... computing **static single assignment form**[7]. ...
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<u>LOPSTR99</u>
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### Method and apparatus for **static single assignment form dead code ...**

A method for **static single assignment form dead code elimination**, ..... noting in the
method and apparatus that with the **operation** of a **swizzle** function, ...
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### Method and apparatus for reducing instruction dependencies in ...

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Thus, the semantics of **static single assignment form** are maintained, ...
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SSA-based ...... truction of **static single assignment form**. Softwar ...
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move **elimination, dead code** removal, and constant propagation. ...
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[PS] <u>Department of Computer Science Trinity College University of ...</u>
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posed to the normal volatile heap, the stack, or the **static** area. ..... **dead code elimination,**
**code** motion, procedure inlining (including message split- ...
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as opposed to the normal volatile heap, the stack or the **static**. area. The Texas/C ..... the
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**<Swizzle operation="wwyz">.** <input type="float4" value="1, 2, 3, 4"/> ...... Shader authors:
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Efficient Method of Computing **Static Single Assignment Form**. ...
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<u>Index (SandMark-3.0)</u>
ModificationProperty: Any algorithm that inserts **code** (of any **form**, whether it will ...... A
PhiStmt is inserted into a CFG in **Single Static Assignment** for. ...
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[GZIP] <u>From sameerds at it.iitb.ac.in Sat Apr 2 04:40:13 2005 From ...</u>
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Yes, 1.0 is **dead**. Assuming people have 1.1 (and removing the **code** for ...... restrictions of
**Single Static Assignment**), but allows for efficient **code** (since ...
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### <u>Static single assignment form</u> - Wikipedia, the free encyclopedia
In compiler design, **static single assignment form** (often abbreviated as SSA .... Another
possibility is to treat pruning as a **dead** code **elimination** problem. ...
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A method for **static single assignment form dead** code elimination, .... 3 illustrates a
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**Static single assignment (SSA) form** facilitates compiler optimizations. ..... **elimination,
dead** code **elimination**, empty **block elimination**, in this order ...
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### [PPT] <u>**Static Single Assignment Form**</u>
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Back Translation Algorithms for **Static Single Assignment Form** ..... test replacement,
empty **block elimination**, copy folding at SSA translation time . ...
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j ← position in s's φ-function corresponding to **block** b. for each φ-function p in s ... Using
**Static Single Assignment**. 5. **Dead** Code **Elimination** for SSA ...
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partial redundancy **elimination**; **static single assignment form**; machine-independent
program ...... **elimination, dead** code **elimination**, and constant folding. ...
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to/from. **static single assignment. form**, Horizontal. arrows represent ...... **Dead** Code
**Elimination**. The original. source program. may have. **dead** ...
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### <u>The Machine-SUIF **Static Single Assignment** Library</u>
**Static single-assignment form** scarely needs an introduction. .... This is an
implementation of the **dead**-code **elimination** algorithm given in Robert Morgan's ...
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### [PS] <u>Eliminating Range Checks using **Static Single Assignment Form**</u>
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s reference paper on the **static single assignment form** [CFRW91], this .... **elimination**
assignments' may actually be **dead** code after all. ...
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### <u>Apparatus and method for incrementally update **static single** ...</u>
In addition, the **elimination** of the **dead** instructions includes **dead** definition ... "Incremental
Computation of **Static Single Assignment Form**" IBM ...

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**Static Single Assignment (SSA) form** is a program representation that is ..... space for
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and **dead** code **elimination**,. 4. do not require a specific flavor of SSA. ...... computing
**static single assignment form'**, Conference Record of the Sixteenth ...
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dancy **elimination**, **dead** code **elimination**, induction vari- ...... out of **static single**
**assignment form**. In **Static** Analysis Sym- ...
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icated code into the **static single assignment (SSA) form**,. and simplifies application of
the ... dancy **elimination**, **dead** code **elimination**, induction vari- ...
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<u>Apparatus and method for incrementally update **static single ...**</u>
"Efficiently Computing **Static Single Assignment Form** and the Control Dependence ....
**dead** code **elimination**, partial redundancy **elimination**, and the like. ...
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[PS] **<u>Static Single Assignment Form</u>** <u>for Machine Code</u>
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tial **dead** code **elimination**. ACM SIGPLAN. PLDI. , pages 147{158, 1994. [MJ92]. C.
McConnel and R. E. Johnson. Using. **static single assignment form** in a code .:.
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**elimination**, introduce phi resource interferences. All of the **dead** phi ..... computing **static**
**single assignment form** and the control dependence graph. ACM ...
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e.g., **Static single assignment form** (SSA), dependence flow graphs ..... −Perform **dead**
code **elimination** (to prune φ-functions) ...
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**Dead** code **elimination** does not use FUD-chains, because the ..... Eciently computing
**static single assignment form** and the control de-. pendence graph. ...
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compiler- ...... **dead**-code **elimination**, which use the semi-pruned **form**. ...
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To permit the code consumer to infer **Static Single Assignment form** for .... variables and
eliminate the extra istore instructions (**dead** code **elimination**). ...
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**Static Single Assignment** (SSA) **form** [CFR+g9] is a popular. sparse intermediate
representation ... including **dead** code **elimination**. [CFR+89], sparse condi- ...
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**elimination** of partial redundancies, code motion, and **dead** code **elimination**. Finally,
Chapter ...... Simple Generation of **Static-Single Assignment Form**. In ...
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PRACTICAL IMPROVEMENTS TO BUILDING **STATIC SINGLE ASSIGNMENT FORM** .....
space for optimizations like constant propagation and **dead**-code **elimination**, which ...
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Figure 1 illustrates the role of **static single assignment form** in a compiler. ...... then delete
S from **Block**(S). end. Figure 17. **Dead** code **elimination**. ...
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instructions (**dead** code **elimination**). ...
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**Static Single Assignment Form**. 12. Dominance Frontiers and SSA .... optimizations
**dead**-code **elimination** and copy propagation ...
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**Static Single Assignment**. **Static Single Assignment** (SSA): .... **Dead** Code **Elimination**.
Algorithm:. WHILE (for each temporary t with no uses && ...
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<u>Comp.compilers: **Static Single Assignment** (TOPLAS Oct '91 paper ...</u>
**Static Single Assignment Form** and the Control Dependence Graph" appearing in ... **dead**
code **elimination** (figure 17) mentions a structure called "'ipdom(B)' ...
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the idea behind **Static Single Assignment form**, it will be instructive to take ...... ure 2.18,
applying **dead** code **elimination** would have simply removed the ...
www.sable.mcgill.ca/publications/thesis/masters-navindra/sable-thesis-2006-masters-

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[PDF] <u>A Type System Equivalent to **Static Single Assignment** □ □□</u>
File Format: PDF/Adobe Acrobat - <u>View as HTML</u>
Key words: **Static Single Assignment Form**, Type System, Compiler Optimizations ....
represent constant propagation and **dead** code **elimination** as type-directed ...
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> press **dead** code **elimination** and common subexpression as type- ...
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[PDF] <u>Formal Verification of **Dead** Code **Elimination** in Isabelle/HOL</u>
ness of **dead** code **elimination** (DCE) on **static single** as- ... 2. **Static Single Assignment
Form**. **Static single assignment** (SSA) **form** has become the pre- ...
doi.ieeecomputersociety.org/10.1109/SEFM.2005.20 - <u>Similar pages</u>

<u>SSA-based **dead**-code **elimination**</u>
This patch implements **dead-code elimination** on the SSA **form**, using the simple ......
@item -fssa Perform optimizations in **static single assignment form**. ...
gcc.gnu.org/ml/gcc-patches/2000-08/msg00051.html - 61k - <u>Cached</u> - <u>Similar pages</u>

> <u>Tree-SSA passes - GNU Compiler Collection (GCC) Internals</u>
> Enter **static single assignment form**. This pass rewrites the function such that .... This
> pass is a stronger **form** of **dead** code **elimination** that can eliminate ...
> gcc.gnu.org/onlinedocs/gcc-4.0.4/gccint/Tree_002dSSA-passes.html - 20k -
> <u>Cached</u> - <u>Similar pages</u>
> [ <u>More results from gcc.gnu.org</u> ]

[PDF] <u>Using SSA **Dead** Code **Elimination** & Constant Propagation</u>
File Format: PDF/Adobe Acrobat - <u>View as HTML</u>
Using SSA – **Dead** code **elimination**. Mark. for each op i. clear i's mark. if i is critical then ...
**Static Single Assignment Form** and the ...
www.cs.rice.edu/~keith/512/Lectures/10**Dead**Cprop.pdf - <u>Similar pages</u>

[PDF] <u>Partial **Dead** Code **Elimination** Using Extended Value Graph</u>
**Dead** code **elimination** [1] has been used to improve efficiency of program execu- .... is
assumed to be of **static single assignment form**. s2 in the above item ...
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[PS] **Static Single Assignment**
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\Eciently computing **static single assignment**. form and the control dependence graph,"
ACM .... **Dead** Code **Elimination** Algorithm. | initialization phase | ...
parasol.tamu.edu/~rwerger/Courses/605/ssa_wt_app.ps - <u>Similar pages</u>

<u>Fall 2005 Programming Language Seminar: Notes from 17 October</u>
Let's pick on **dead** store **elimination**. **Dead** store **elimination** can be stated simply: ....
Efficiently computing **static single assignment form** and the control ...
www.cse.wustl.edu/~mdeters/seminar/fall2005/notes1017.html - 29k -
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[PDF] <u>**Single**-pass generation of **static single**-**assignment form** for ...</u>

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**STATIC SINGLE-ASSIGNMENT. FORM.** 2.1 Naming. of Values. Every. **assignment** .....
**dead**. The immediate. dominator. of a join. node has to be computed ...

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## The Phoenix Project
Is based on **Static-Single Assignment**; Supports predication; Supports speculation .... This
is a **form** of partial-redundancy **elimination**. PRE for memory ...
www.cs.cmu.edu/~phoenix/compiler.html - 27k - <u>Cached</u> - <u>Similar pages</u>

## **Dead** Code Elimination (ResearchIndex)
0.0: Partial **Dead** Code **Elimination** - Knoop, Rüthing, Steffen (1994) (Correct) ... 415
Efficiently computing **static single assignment form** and the . ...
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In his thesis [Ana99], Ananian suggests that a **dead** code **elimination** pass ... struction of
**static single assignment form**. Software—Practice and ...
www.cs.man.ac.uk/~jsinger/research/computing.pdf - <u>Similar pages</u>

## [PS] Partial **Dead** Code **Elimination** using Slicing Transformations
File Format: Adobe PostScript - <u>View as Text</u>
tion algorithms for achieving partial **dead** code **elimination**. (PDE) are presented. ...... of
computing **static single assignment form**. In. 16th An- ...
www.cs.ucr.edu/~gupta/research/Publications/Comp/pldi97b.ps - <u>Similar pages</u>

## [PS] Construction of Thinned Gated **Single-Assignment Form**
File Format: Adobe PostScript - <u>View as Text</u>
subscripts; and **dead** code **elimination**, when we try to evaluate comparisons for .....
introduced the rst gated version of **static single-assignment form** ...
www.hgsc.bcm.tmc.edu/~havlak/papers/gsa-main.ps.gz - <u>Similar pages</u>

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**elimination, dead** code **elimination**, induction vari- ...
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## [PS] **Dead** Code Elimination
File Format: Adobe PostScript - <u>View as Text</u>
**Dead** code **elimination** is an optimization which removes all operations whose ......
computing **static single assignment form** and the control dependence graph. ...
www.cs.princeton.edu/~ras/**dead**.ps - <u>Similar pages</u>

## Method for optimizing a loop in a computer program by ...
McConnell et al, Using **Static Single Assignment Form** in a Code Optimizer, ... Brandis,
Marc et al, "**Single** Pass Generation of **Static-Assignment Form** for ...
www.patentstorm.us/patents/6151704.html - 21k - <u>Cached</u> - <u>Similar pages</u>

## [PDF] Marmot: an optimizing compiler for Java
based, **static single assignment**, three-address representation. .... Control optimizations
(branch correlation/removal, **dead**/unreachable **block elimination**) ...
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[PDF] <u>Optimizations performed - by the Java HotSpot Compiler</u>
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Based on **Static Single Assignment form** representation ... Global **dead** code
**elimination**. Center for Software Technology. Huib van den Brink ...
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and destruction of **static single assignment form**. ...
www.cs.rutgers.edu/~ryder/oosem99/papers/marmot.pdf - <u>Similar pages</u>

[PPT] <u>Slide 1</u>
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**Static single assignment form** (SSA); Dependence flow graphs (DFG), etc .... Perform
**dead elimination** (to prune Φ functions); Replace Φ functions with copies ...
www.cs.pitt.edu/~zhangyt/teaching/cs3220/ssa.ppt - <u>Similar pages</u>

[PPT] <u>Hardware/Compiler Co-Design and Compiler Optimizations</u>
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**Static Single-Assignment Form**. Each variable has only one definition in the program text.
.... are eliminated by **dead** code **elimination**. ...
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common subexpression **elimination** and **dead** code **elimination** at a local level. .... It is
based on **Static Single Assignment form**, a representation that ...
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Useless-store **elimination**. **Dead** variables don't need to be stored back in .... **Static Single
Assignment form**. Encode both control-flow and data-flow in a ...
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Figure 5: **Static Single Assignment form** for the program in Figure 3(b). .... sion
**elimination** and loop invariant. code motion. 3. **Dead Code Elimination** ...
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constant propagation and unreachable code **elimination**. ...
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[PS] **Static Single** Information **Form**
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**Static Single Assignment (SSA) form** transforms the pro- ..... Both are often called \**dead**
code **elimination**" in the literature. ...
cscott.net/Publications/ssi.ps - <u>Similar pages</u>

<u>LAMP: Advanced Compiler Techniques (Compilation Avancée)</u>

PART 1: SSA-based **Dead** Code **Elimination** & Sparse Conditional Constant Propagation.
... Efficiently Computing **Static Single Assignment Form** and the Control ...